GOVERNMENT OF INDIA
COAL
LOK SABHA

UNSTARRED QUESTION NO:3974
ANSWERED ON:17.05.2006
RESEARCH WORKS CARRIED OUT BY CARD
Tripathy Shri Braja Kishore

Will the Minister of COAL be pleased to state:

(a) whether the Centre for Applied Research and Development (CARD) has in hOllse R&D centre ofNeyveli Lignite Corporation:

(b) ifso. the details in this regard:

(c) the details of research works carried out by the CARD during 2005-06:

(d) whether the CARD provides analytical services to outside industries:

(e) ifso. the criteria fixed in this regard: and

(f) the details of analytical services provided by the CARD during 2005-06 to such industries?

Answer

MINSTER OF THE STATE IN THE MINISTRY OF COAL (DR. DASARI NARAYANA RAO)

(a) & (b): The Centre for Applied Research and Development (CARD) is an In-house R&D Centre of Neyveli Lignite Corporation and is recognized by the Department of Scientific and Industrial Research, Ministry of Science and Technology since 1975.

(c): The following research works were carried out by CARD during 2005-06 under the Science and Technology Scheme funded by the Ministry of Coal:

1. Development of cost effective high performance Highways using fly ash composites:
2. Development of a process for prodll<.:tion of activated carbon from Neyveli lignite:
3. Separation of marcasite from pulverized lignite using fluidized bed:
4. Studies on the use of bottom slag in crop production;
5. Studies on in-house recharge potential in the recharging area of Neyveli deep seated aquifer:
6. Study on Underground Coal Gasification and its utilization for power generation in lignite deposits of Rajasthan:

(d) Yes. Sir.

(e) Neyveli Lignite Corporation is an ISO certified instituition and the testings were carried out as per the Bureau of Indian Standards norms. For some of the testing. standards prescribed by the International Organisation for Standardisation. the Deutsches Institute Fur Normung. the American Society for Testing and Materials and the Australian Standards were followed. The samples of coal, lignite, fly ash. hum ic acid and metals etc.. were received from various firms.

(f) Mainly fuel characteristics such as proximate. ultimate analysis. calorific value, ash fusion and ash analyses were carried Ollt and also humic acid content given in the product. Mls. STCMS. NeyvelilTamilnadu. Mls. India CementslTamilnadu, Mls. Central Plantation Crops Research Institute. Kasarkode/Kerala and Mls. Supreme Renewable Energy. Pennadam/Tamilnadu are the firms. which have been sending samples for analysis.